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In re Application of

Kucherlapati et al

Application Number

08/234145

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Paper No. #29

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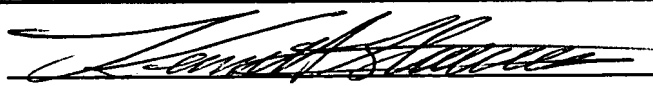
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#29

(12) **United States Patent**
Kucherlapati et al.(10) Patent No.: **US 6,713,610 B1**
(45) Date of Patent: **Mar. 30, 2004**(54) **HUMAN ANTIBODIES DERIVED FROM
IMMUNIZED XENOMICE**(76) Inventors: **Raju Kucherlapati**, 8 Gracie La.,
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patent is extended or adjusted under 35
U.S.C. 154(b) by 52 days.(21) Appl. No.: **09/614,092**(22) Filed: **Jul. 11, 2000****Related U.S. Application Data**(60) Division of application No. 08/724,752, filed on Oct. 2,
1996, now Pat. No. 6,150,584, which is a continuation-in-
part of application No. 08/430,938, filed on Apr. 27, 1995,
now abandoned, and a continuation-in-part of application
No. 08/234,145, filed on Apr. 28, 1994, now abandoned, and
a continuation-in-part of application No. 08/112,848, filed
on Aug. 27, 1993, now abandoned, and a continuation-in-
part of application No. 08/031,801, filed on Mar. 15, 1993,
and a continuation-in-part of application No. 07/919,297,
filed on Jul. 24, 1992, now abandoned, and a continuation-
in-part of application No. 07/610,515, filed on Nov. 8, 1990,
now abandoned, and a continuation-in-part of application
No. 07/466,008, filed on Jan. 12, 1990, now abandoned.(51) Int. Cl. **A61K 39/395; C07K 16/00**(52) U.S. Cl. **530/388.23; 530/387.1;**
530/388.1; 530/388.15; 424/130.1; 424/132.1;
424/141.1; 424/147.1; 424/145.1(58) Field of Search **530/350, 387.1,**
530/388.1, 388.15, 388.23; 536/23.1; 435/320.1;
424/147.1, 145.1, 130.1, 141.1(56) **References Cited****U.S. PATENT DOCUMENTS**4,950,599 A 8/1990 Bertling 435/456
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duction," *Trends in Genetics* 3(8):205-206 (1987).

(List continued on next page.)

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(57) **ABSTRACT**Fully human antibodies against a specific antigen can be
prepared by administering the antigen to a transgenic animal
which has been modified to produce such antibodies in
response to antigenic challenge, but whose endogenous loci
have been disabled. Various subsequent manipulations can
be performed to obtain either antibodies per se or analogs
thereof.**14 Claims, 18 Drawing Sheets**